RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

DIVISION : QUALITY ASSURANCE + TECHNICAL SERVICES

SUBJECT TITLE : CIGARETTE AND SMOKE ANALYSIS

PERIOD COVERED : April - June 1990

WRITTEN BY : SENEHI-F. (SEF)

KEYWORDS : BARCLAY, CH, LGC, GB, LNE, FR

BARCLAY ULTRA LIGHTS 84/F SOLD IN SWITZERLAND

New BAT brand launched in the Swiss market with a conventional filter (double filter) without channel ventilation.

Smoke deliveries determined on 120 cigarettes showed results on the high side for tar but still just within tolerance limits.

Values found	Tar/SN	=	2.9 / 0.25
Printed numbers	Tar/SN	=	2 / 0.2
Limit values	Tar/SN	=	3 / 0.3

DATA FROM THE OFFICIAL UK LABORATORY (LGC) (Appendix 1)

A list was established showing the tar, smoke nicotine and CO values of six PM brands analysed by LGC during a six-month period in 1989-1990, compared with the results obtained by QA-PME on parallel samples (Survey 30 covering the period October 89 - March 90). The cigarettes were analysed by the two laboratories according to UK norms (1).

For brands Marlboro KS and 100's, Raffles KS and 100's, the UK butt length is 1 mm more than the ISO butt length. For Marlboro Lights KS and 100's, the UK butt length is 2 mm more than the ISO butt length.

2028634557

Source: https://www.industrydocuments.ucsf.edu/docs/jpnm0000

RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

Comments

1. All our brands complied with the UK Legislation.

2. Tar values found by LGC were comparable to those obtained by QA-PME, whereas smoke-nicotine values were higher and CO values slightly lower.

3. Deviation in smoke nicotine remains constant for the last three Survey where LGC found systematically 0.1 mg higher results than PM. Deviations between the different manufacturers in UK should by discussed in the framework of the Scientific Liaison Committee meeting.

DATA FROM THE OFFICIAL FRENCH LABORATORY (LNE) (Appendix 2)

As mentioned in the last quarterly report, all PM brands have been tested by LNE for 1989 and all complied with the regulations, i.e. they were all within tolerance limits.

Comments on these results (2)

1. On average, tar values obtained by LNE were systematically lower than those found by PME, whereas smoke-nicotine values were equivalent.

DEVIATIONS IN PERCENT

	1989	1988	1987	1986	1985	1984
TAR	- 10.6	- 6.1	- 6.4	- 4.0	- 1.5	0.0
SN	+ 1.1	+ 12.6	+ 10.7	+ 7.2	+ 3.4	+ 11.9

2. Smoke nicotine deviations between the two laboratories were considerably reduced in 1989 in comparison with 1988 and 1987.

3. The increase in tar deviations between the two laboratories in 1989 (-10.6%) compared with 1988 (-6,1%) is mainly related to the fact that LNE found, on average, higher water values in smoke than PME (tar = TPM minus water minus nicotine).

2028634558

Source: https://www.industrydocuments.ucsf.edu/docs/jpnm0000

PRODUCT REPORTS

Product reports were written for the following new brands:

BRAND	PRINTED VALUES	MANUFACTURER	COUNTRY OF SALE
Gauloises Légères KS/F	Tar/SN = 7.5/0.70	Cinta	Belgium
HB Lights KS/F	Tar/SN = 6/0.6	B.A.T.	West Germany
Kim Ultra 100/F	Tar/SN = 4/0.3	B.A.T.	West Germany
Peer Lights KS/F	Tar/SN = 6/0.4	Brinkmann	West Germany
Vogue Superslims 100/F	Tar/SN = 7/0.7	Brinkmann	West Germany
MS De Luxe 100/F	DPM/SN = 7.0/0.60	Monital	Italy
Fjodor 100/F	Tar/SN = 12/0.9	Sullana	Switzerland
Gorbatchow KS/F	Tar/SN = 16/1.1	Imported by Four-Seasons	Switzerland

REFERENCES

1. Report by Senehi-F. dd. May 31, 1990
2. Report by Senehi-F. dd. July 5, 1990

2028634559

Source: https://www.industrydocuments.ucsf.edu/docs/jpnm0000

Appendix 1

COMPARATIVE RESULTS BETWEEN LGC AND PME (SURVEY 30)

	Tar [mg/cig]		SN [mg/cig]		CO [mg/cig]	
	LGC	PME	LGC	PME	LGC	PME
Marlboro KS	13.41	13.97	1.02	0.94	12.41	13.22
Marlboro 100's	14.56	14.83	1.18	1.07	14.98	15.63
Raffles KS	13.53	13.58	1.37	1.27	14.03	14.32
Raffles 100's	13.56	13.25	1.37	1.24	16.33	16.73
Marlboro Lights KS	8.57	8.30	0.68	0.59	9.86	10.33
Marlboro Lights 100's	8.55	8.75	0.73	0.65	8.80	9.35
Average Survey 30	12.03	12.11	1.06	0.96	12.73	13.26
Average Survey 29	12.17	11.99	1.02	0.93	12.86	13.17
Average Survey 28	12.15	12.00	1.02	0.92	12.74	13.60

2028634560

Source: https://www.industrydocuments.ucsf.edu/docs/jpnm0000

COMPARATIVE RESULTS BETWEEN THE OFFICIAL FRENCH LABORATORY (LNE) AND QA PME (1989)

B R A N D S	Values printed on pack		Limit values		L N E		Q A P M E		Difference LNE - QAPME	
	TAR	SN	TAR	SN	TAR	SN	TAR	SN	TAR	SN
ARMADA GALION 100'S	15.9	1.09	18.3	1.25	14.9	1.12	16.0	1.13	- 1.10	- 0.01
ARMADA MENTHOL 100'S	15.9	1.09	18.3	1.25	13.7	1.08	15.5	1.07	- 1.80	+ 0.01
CHESTERFIELD REGULAR NF	17.5	1.29	20.1	1.48	16.0	1.35	16.6	1.24	- 0.60	+ 0.11
CHESTERFIELD KS NF	19.9	1.55	22.9	1.78	18.7	1.55	19.9	1.50	- 1.20	+ 0.05
CHESTERFIELD KS EXPORT	14.9	1.14	17.1	1.31	13.4	1.09	15.1	1.09	- 1.70	+ 0.00
FORTUNA	14.9	0.95	17.1	1.09	13.9	1.01	14.9	0.99	- 1.00	+ 0.02
MARLBORO BOX	14.9	1.09	17.1	1.25	14.4	1.09	15.4	1.06	- 1.00	+ 0.03
MARLBORO K.S. SOFT	14.9	1.09	17.1	1.25	14.2	1.06	15.8	1.08	- 1.60	- 0.02
MARLBORO MENTHOL KS	14.9	1.09	17.1	1.25	14.6	1.06	15.8	1.04	- 1.20	+ 0.02
MARLBORO 100'S SOFT	16.9	1.20	19.4	1.38	14.3	1.09	16.0	1.10	- 1.70	- 0.01
MARLBORO 100'S BOX	16.9	1.20	19.4	1.38	13.8	1.08	16.3	1.12	- 2.50	- 0.04
MARLBORO LIGHTS 100'S	10.8	0.80	12.4	0.92	9.3	0.81	11.0	0.80	- 1.70	+ 0.01
MARLBORO LIGHTS KS	9.6	0.70	11.0	0.81	7.6	0.63	8.9	0.63	- 1.30	+ 0.00
MERIT	7.5	0.56	8.6	0.64	6.1	0.57	7.4	0.55	- 1.30	+ 0.02
MULTIFILTER 100'S	12.9	0.95	14.8	1.09	9.7	0.83	11.2	0.84	- 1.50	- 0.01
MURATTI AMBASSADOR BOX	12.9	0.95	14.8	1.09	11.5	0.90	12.9	0.91	- 1.40	- 0.01
MURATTI AMBASS.EXTRA MILD	7.8	0.68	9.0	0.78	6.7	0.63	7.7	0.60	- 1.00	+ 0.03
PHILIP MORRIS FILTER KINGS	14.9	1.09	17.1	1.25	14.4	1.12	16.1	1.12	- 1.70	+ 0.00
PHILIP MORRIS LIGHTS KS	9.5	0.70	10.9	0.81	8.1	0.68	9.4	0.69	- 1.30	- 0.01
PHILIP MORRIS SUPER LIGHTS KS	3.9	0.40	4.5	0.46	3.1	0.32	4.0	0.32	- 0.90	+ 0.00
PHILIP MORRIS 100'S S.L.	4.5	0.40	5.2	0.46	3.8	0.39	4.4	0.37	- 0.60	+ 0.02
PHILIP MORRIS ULTRA LIGHTS KS	1.3	0.17	1.5	0.20	0.9	0.14	1.6	0.16	- 0.70	- 0.02
GENERAL AVERAGE	12.4	0.92	14.3	1.05	11.05	0.89	12.36	0.88	- 1.31	+ 0.01

seftab12.tab
15.04.90

2028634561

Source: https://www.industrydocuments.ucsf.edu/docs/jpnm0000